BTEC Assignment Brief

Qualification	Pearson BTEC International Level 3 Subsidiary Diploma in Applied Science Pearson BTEC International Level 3 Foundation Diploma in Applied Science Pearson BTEC International Level 3 Diploma in Applied Science Pearson BTEC International Level 3 Diploma in Environmental Science Pearson BTEC International Level 3 Extended Diploma in Applied Science Pearson BTEC International Level 3 Extended Diploma in Environmental Science
Unit number and title	**Unit 24: Pollution and Waste Management**
Learning aim(s)	**A:** Investigate contributing factors of pollution
Assignment title	**'Pollution – sources, facts and figures'**
Assessor	
Issue date	
Hand in deadline	

Vocational Scenario or Context	You have recently joined the team of a local authority based on the fringes of a large city. Your first role is to determine the causes and effects of 'fly tipping' in the area with a view to suggest improvements to managing the problem. Your position also demands that you continue study into environmental matters so that you will be better informed in areas of water, land and air pollution so that you can provide useful input during departmental meetings.

Task	Produce a report which **explains** all aspects of pollution. This will include; water, land and air pollution. The report will be used by other members of the environmental department as a reference document which can be updated or revised during the course of the remainder of the year. The report should include **explanations** of the following: • An accepted definition – '*the introduction or presence of a substance in the environment that is harmful or poisonous'.* • Measureable and non-measurable forms of pollution • Sources of water pollution and the effects associated with water pollution on microscopic and macroscopic life. • Air pollution sources and the health effects of air pollution on all animals including humans throughout the world, plant life and soils. • Land pollution sources and the effects of land pollution on the water cycle, air quality, climate and ecosystems in general Produce a table or **chart** to support this work with well researched facts and

	figures using a number of different academic sources for confirmation and further **analysis, evaluating the effects of pollution on the earth and its systems**. This will involve such aspects as the estimated mass of waste entering the oceans annually, amount of non-treated waste, numbers of animals affected by plastic waste, rise in asthma cases for example and area of rainforest cut down etc. The work should cover the problems faced by scientists and world leaders in combating the effects of human development You should also **analyse** the figures for the top 10 polluting nations by means of the amount of specific pollutants produced and disposed of appropriately. You could suggest reasons for the figures relating to waste that you have identified. **Describe** and **explain** the processes for the main activities responsible for carbon emissions leading to climate change. This work will focus on: • Industry and manufacturing • Agriculture • Production of electricity and heat • General land use and waste sites
Checklist of evidence required	A report that includes: • An **explanation** of *pollution* • A list and **description** of measurable and non-measureable forms of pollution • An **analysis** of researched facts and figures • An **analysis** of waste produced by the top 10 polluting nations • An **explanation** of processes which produce carbon emissions.

Criteria covered by this task:	
Unit/Criteria reference	To achieve the criteria, you must show that you are able to:
A.D1	Evaluate the effects of pollution using supporting data
A.M1	Explain the effects of pollution in air, water and on land
A.P1	Describe the main sources of pollution
A.P2	Describe the main activities responsible for air pollution
Sources of information to support you with this Assignment	www.dosomething.org › facts › 11-facts-about-pollution www.livescience.com › 22728-pollution-facts www.nrdc.org › stories › air-pollution-everything-you-need-know www.nationalgeographic.com › environment › habitats › plastic-pollu... www.pollutionissues.co.uk › fly-tipping

	en.wikipedia.org › wiki › Greenhouse_gas www.weforum.org › agenda › 2019/01 › chart-of-the-day-these-coun... ourworldindata.org › co2-and-other-greenhouse-gas-emissions